

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-283968

(43)Date of publication of application : 07.10.1994

(51)Int.Cl.

H03H 17/00

H03H 17/02

H03H 17/06

(21)Application number : 05-068351

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(22)Date of filing : 26.03.1993

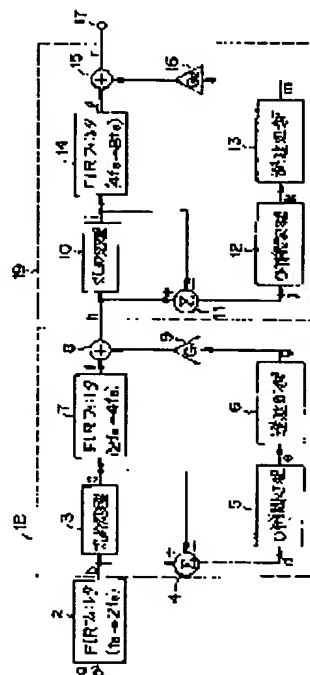
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(54) DIGITAL SIGNAL ARITHMETIC UNIT

(57)Abstract:

PURPOSE: To reduce a rounding error i.e., a re-quantization error in an audible zone without increasing a hardware scale by taking out a generated rounding error by a rounding error extraction means, and eliminating a superimposed rounding error component from the output of a rounding processing means by a rounding error elimination means by using the rounding error.

CONSTITUTION: A digital filter means 7 with (m) bits of allowable input word length, the rounding processing means 3 which performs the rounding processing of input of (n) bits longer than the (m) bits of allowable input word length to (m) bits, and the rounding error extraction means 4 which takes out the rounding error from the output of the rounding processing means 3 are provided. The rounding error component superimposed on the filter output of the digital filter means 7 is eliminated by the rounding error elimination means 8 by using the rounding error taken out by the rounding error extraction means 4. This digital signal arithmetic unit can be constituted by setting it as one block 18 cascade connecting plural of the blocks, and forming them in multiple stage constitution.



LEGAL STATUS

[Date of request for examination] 29.02.2000

[Date of sending the examiner's decision of rejection] 19.03.2002

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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